DIYA GAUR

☐ +91 | @ diyagaur59@gmail.com | 🖿 LinkedIn | ⚙ GitHub | Leetcode

EDUCATION

MBM University	Jodhpur, India
B.E. in Artificial Intelligence and Data Science	Nov 2022 - Jun 2026

TECHNICAL SKILLS

Programming Languages: C/C++, JavaScript, SQL, Python

Development: Blockchain, GPT, Nodejs, REST-API, React, HTML5/CSS3, Tailwind CSS, Express, Vite, Web3.js

Database: MongoDB, MySQL, SQL Server

Machine Learning: NLP, Langchain, Numpy, PyTorch, Pandas, Tensorflow, Keras

Tools & OS: Git, Postman, Google Colab, Linux,

WORK EXPERIENCE

Software Engineer Summer Intern @Ernst and Young — Pune, India
Global Trade Automation | **Tabula, PyPDF2, pandas, Python** — June 2024 – July 2024

- Contributed to the Tax Indirect Tax Global Trade Function to develop an automated data extraction system for shipment PDFs.
- Converting unstructured data into structured Excel sheets with 40+ columns by utilizing Python libraries such as Tabula, PyPDF2, Fitz, and Pandas for table and text extraction.
- Optimized the workflow, enabling 5x faster processing compared to manual data entry.

Embedded Systems and Robotics @MBM University — Jodhpur, India
Embedded Systems and programming | **, RPi Pico, ESP 32 Cam, Open CV** — Jun 2023 – July 2023

- Under the guidance of Prof. Alok Singh Gahlot Sir, gained a strong understanding of embedded systems, robotics fundamentals, RPi Pico, ESP 32 Cam and Arduino Programming.
- Used Arduino Uno to control motors, sensor integration(IR sensors), wireless communication (bluetooth and WiFi), camera modules (ESP 32 cam), etc. to make Line Follower Robot, WiFi/Bluetooth control robots.
- Learnt fundamentals of Open CV and Image processing under Prof Abhisek Gour Sir.

PROJECTS

Real-Time Yogasana Classification | *Python, PyTorch, OpenCV*
- Developed a deep learning model integrating CNN and LSTM networks to classify six distinct yoga asanas from video clips. Independently generated the video dataset from scratch for the project.
- Implemented a performance rating system categorizing each pose execution as Good, Average, or Poor, enhancing feedback precision.
- Real-time inference capabilities, enabling immediate asana recognition and performance evaluation using live webcam feeds (Currently working).

KhetSeGhar | *HTML, CSS, JS*
- E-commerce platform connecting farmers directly with consumers, providing voice support for farmers, integrating a crop prediction ML model, and offering an interface for leasing agricultural equipment.Where farmers can list their produce and consumers can browse and purchase products using HTML, CSS and Js.
- Added text to speech and speech to text using Javascript. Added an additional feature of crop prediction using ML which helps farmers to find which crop is best suitable on their land on different parameters- nutrients in soil, humidity, rainfall, pH, etc.

Health Lens | *React, Fast API, Firebase, Python, Google-AI Studio*
- Developed lung disease severity prediction using the existing Machine Learning model with the x-rays images trained dataset, a model to detect Covid 19 & Pneumonia by the chest x-ray images.
- Utilized advanced architectures such as ResNet 18 and Convolutional Neural Networks (CNN), creating two distinct classes for precise disease detection and classification.
- Designed the interface, integrated the model and implemented the firebase authentication.

EXTRACURRICULARS

- **President, Debating Club:** Leading 150+ students, organizing 30+ sessions annually, enhancing public speaking through debates, group discussions, and extempore.
- **Innovation Ambassador, Institute's Innovation Council:** Driving innovation and entrepreneurship initiatives
- **Tech And Marketing Team Member:** Made 110+ different types of robots in Girls in Robotics world record attempt.

ACHIEVEMENTS

SITE Hackathon, Jaipur: Ranked among the top 10 teams out of 100+ competitors.

National Theater Festival, Patiala: Delivered a 25-minute monologue in *Jee Jaisi Aapki Marzi* play, contributing to the team securing 2nd position.

Flipkart Runway Finalist.